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File: USPT

Dec 11, 2001

DOCUMENT-IDENTIFIER: US 6327918 B1

TITLE: Portable air sampling apparatus including non-intrusive activity monitor and methods of using same

Abstract Text (1):

Portable air sampling apparatus and methods are provided for passively and/or intermittently sampling air in the breathing zone of a person over extended periods of time. The presence of airborne contaminants can be monitored, as well. Air sampling system performance can be continuously measured and recorded within a data logger. In addition, physical activity levels of a person wearing a portable air sampling system can be continuously monitored and recorded within the data logger. An input device communicates with the data logger and allows a user to store information about his or her personal activities in the data logger. A receiver in communication with the data logger can receive data from remotely located communications devices, such as a Global Positioning System (GPS) signals. A transmitter in communication with the data logger can transmit data from the data logger to remotely located communications devices.

Brief Summary Text (20):

According to another embodiment of the present invention, a portable apparatus configured to be worn by a person, includes an air sampling system that samples air from a breathing zone of a person wearing the portable apparatus, a physical activity monitor that monitors physical activity of the person wearing the portable apparatus, and a data logger in communication with the physical activity monitor. The air sampling system may be a passive air sampling system or an active air sampling system, or a combination of passive and active air sampling systems. The portable apparatus may include an input device that communicates with the data logger and that allows a user to record information about his or her personal activities in the data logger. Preferably, the input device includes a keypad, and/or a user interface configured to receive user-provided data. The portable apparatus may also include a receiver in communication with the data logger that can receive data from remotely located communications devices, such as a Global Positioning System (GPS) receiver. The portable apparatus may also include a transmitter in communication with the data logger that can transmit data from the data logger to remotely located communications devices. The portable apparatus may also utilize Bluetooth wireless technology such that the data logger can communicate with various stationary devices located nearby. The portable apparatus may also include a system that measures airborne contaminants in real time.